

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : William L. Bowden et al. Art Unit :
Serial No. : Examiner :
Filed : March 9, 2004
Title : PRIMARY LITHIUM ELECTROCHEMICAL CELL

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Applicants submit the references listed on the attached form PTO-1449.

Under 35 USC §120, this application relies on the earlier filing date of application serial number 09/988,298, filed on November 19, 2001. The following references were submitted to and/or cited by the Office in the prior application and, therefore, are not provided in this application.

This statement is being filed with the application. Please apply any charges or credits to Deposit Account No. 06-1050.

Date: March 9, 2004

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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 08935-251002	Application No.
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant William L. Bowden et al.	
		Filing Date March 9, 2004	Group Art Unit

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	4,133,856	01/09/79	Ikeda <i>et al.</i>			
	AB	4,246,253	01/20/81	Hunter			
	AC	4,312,930	01/26/82	Hunter			
	AD	4,604,336	08/05/86	Nardi			
	AE	4,904,552	02/27/90	Furukawa <i>et al.</i>			
	AF	4,975,346	12/04/90	Lecerf <i>et al.</i>			
	AG	5,114,804	05/19/92	Stiles <i>et al.</i>			
	AH	5,294,499	03/15/94	Furukawa <i>et al.</i>			
	AI	5,425,932	06/20/95	Tarascon			
	AJ	5,759,510	06/02/98	Pillai			
	AK	5,955,052	09/21/99	Padhi <i>et al.</i>			
	AL	5,997,839	12/07/99	Pillai			
	AM	6,207,129 B1	03/27/01	Padhi <i>et al.</i>			

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AN	Ammundsen <i>et al.</i> , " Mechanism of Proton Insertion and Characterization of the Proton Sites in Lithium Manganate Spinels," Chem. Mater., Vol. 7, No. 11, pp. 2151-2160, (1995).
	AO	Bowden <i>et al.</i> , "Manganese Dioxide for Alkaline Zinc Batteries: Why Electrolytic MnO ₂ ?", ITE Letters on Batteries, New Technologies & Medicine, Vol. 1, No. 6, (2000).
	AP	Dahn <i>et al.</i> , "Thermal stability of Li _x CoO ₂ , Li _x NiO ₂ and λ-MnO ₂ and consequences for the safety of Li-ion cells," Solid State Ionics, Vol. 69, Nos. 3-4, pp. 265-270, (1994).
	AQ	David <i>et al.</i> , "Structure Refinement of the Spinel-Related Phases Li ₂ Mn ₂ O ₄ and Li _{0.2} Mn ₂ O ₄ ," J. Solid State Chem., Vol. 67, pp. 316-323, (1987).
	AR	Geronov <i>et al.</i> , "Rechargeable Compact Li Cells with Li _x Cr _{0.9} V _{0.1} S ₂ and Li _{1+x} V ₃ O ₈ Cathodes and Ether-Based Electrolytes," J. of the Electrochemical Soc., Vol. 137, No. 11, pp. 3338-3344, (90).
	AS	Giwa <i>et al.</i> , "Lithium Primary Envelope Cells," 16 th Intern. Seminar & Exhibition on Primary & Secondary Batteries, pp.Q1-11 (1999).
	AT	Hunter, J. C. and Tudron, F. B., "Nonaqueous Electrochemistry of Lambda MnO ₂ ," Proc. Electrochem. Soc. Vol. 85-4, pp. 444-451, (1985).
	AU	Hunter, James C., "Preparation of a New Crystal of Manganese Dioxide: λ-MnO ₂ ," Journal of Solid State Chemistry, Vol. 39, pp. 142-147, (1981).
	AV	Larcher <i>et al.</i> , "Synthesis of MnO ₂ Phases from LiMn ₂ O ₄ in Aqueous Acidic Media," J. Electrochem. Soc., Vol. 145, No. 10, pp. 3392-3400, (1998).

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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	BA	Manev, V. <i>et al.</i> , "Rechargeable lithium battery with spinel-related λ -MnO ₂ I. Synthesis of λ -MnO ₂ for battery applications," Journal of Power Sources, 43-44, pp. 551-559, (1993).
	BB	Mosbah <i>et al.</i> , "Phases Li _x MnO ₂ λ Rattachees au Type Spinelle," with English abstract, Bater. Res. Bull, Vol. 18, pp. 1375-1381, (1938).
	BC	Patrice <i>et al.</i> , "Understanding the second electron discharge plateau in MnO ₂ -based alkaline cells," ITE Letters on batteries, New Technologies and Medicine, Vol. 2, No. 4, (2001).
	BD	Read <i>et al.</i> , "Low Temperature Performance of λ -MnO ₂ in Lithium Primary Batteries," Solid State Letters, Vol. 4, No. 10, pp. A162-165, (2001).
	BE	Schilling <i>et al.</i> , "Modification of the High-Rate Discharge Behavior of Zn-MnO ₂ Alkaline Cells through the Addition of Metal Oxides to the Cathode," ITE Letters on Batteries, New Technologies & Medicine, Vol. 2, No. 3, (2001).
	BF	Tarascon <i>et al.</i> , "Chemical and electrochemical insertion of Na into the spinel λ -MnO ₂ phase," Solid State Ionics, Vol. 57, pp. 113-120, (1992).
	BG	Tarascon <i>et al.</i> , "The Spinal Phase of LiMn ₂ O ₄ as a Cathode in Secondary Lithium Cells," Electrochem. Soc., Vol. 138, No. 10, pp. 2859-2864, (1991).
	BH	Tarascon, J. M. and Guyomard, D., "The Li _{1+x} Mn ₂ O ₄ /C Rocking-Chair System: A Review," J. Electrochimica Acta, Vol. 38, No. 9, pp. 1221-1231, (1991).
	BI	Xia, Xi and Sun Weiwei, "The electrochemical performance of .lambda.-MnO ₂ in alkaline solution," abstract only, Dianyuan Jishu, 23 (Suppl.), pp. 74-76, (1999).

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